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IN THE CLAIMS:

There are no claim amendments, the current claims are as follows:

1. (Previously presented) A computer-implemented method determining a listing of hosts on a network to perform a parallel application, said method comprising:

determining a listing of all possible hosts on said network for performing said parallel application;

determining, for each of said possible hosts, a current capacity and a current utilization;

calculating, for each of said possible hosts, a difference between said current capacity and said current utilization; and

selecting from said listing of all possible hosts a listing of hosts based on sorting said calculated differences.

2. (Original claim) The method of claim 1, wherein said determination of a listing of processors is itself a parallel processing application.

3. (Original claim) The method of claim 1, wherein said determination of a listing of processors is executed in real time concurrently with said parallel application.

4. (Original claim) The method of claim 1, further comprising:

providing said selected listing of hosts to an operating system controlling an execution of said parallel application.

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5. (Original claim) The method of claim 1, wherein said selecting a listing of hosts from

said listing of all possible hosts further comprises a quantification of a history of each said

possible host and a consideration of said history in said selecting of a listing.

6. (Original claim) The method of claim 1, wherein said calculating a difference between

current capacity and a current utilization further comprises:

      normalizing said difference.

7. (Previously presented) A signal-bearing medium tangibly embodying a program of

machine-readable instructions executable by a digital processing apparatus to determine a

listing of hosts on a network to perform a parallel application, said machine-readable

instructions comprising:

      determining a listing of all possible hosts on said network for performing said parallel

application;

      determining, for each of said possible hosts, a current capacity and a current

utilization;

      calculating, for each of said possible hosts, a difference between said current capacity

and said current utilization; and

      selecting from said listing of all possible hosts a listing of hosts based on sorting said

calculated differences.

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8. (Original claim) The signal-bearing medium of claim 7, wherein said machine-readable

instructions are provided to an operating system on said network such that said determination

of a listing of processors is itself a parallel processing application.

9. (Original claim) The signal-bearing medium of claim 7, wherein said machine-readable

instructions are provided to an operating system on said network such that said determination

of a listing of processors is executed in real time concurrently with said parallel application.

10. (Original claim) The signal-bearing medium of claim 7, said machine-readable

instructions further comprising:

        providing said selected listing of hosts to an operating system controlling an

execution of said parallel application.

11. (Original claim) The signal-bearing medium of claim 7, wherein said selecting a listing

of hosts from said listing of all possible hosts further comprises a quantification of a history

of each said possible host and a consideration of said history in said selecting of a listing.

12. (Original claim) The signal-bearing medium of claim 7, wherein said calculating a

difference between current capacity and a current utilization further comprises:

        normalizing said difference.

13. (Previously presented) A computer network having a plurality of computation resources

and an operating system for executing a target parallel application process using at least a

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subset of said plurality of computation resources, wherein said network includes a method to

determine a listing of said computation resources to perform said target parallel application

process, said method comprising:

determining a listing of all possible said computation resources on said network for

performing said parallel application;

determining, for each of said possible computation resources, a current capacity and a

current utilization;

calculating, for each of said possible computation resources, a difference between said

current capacity and said current utilization; and

selecting from said listing of all possible computation resources a listing of

computation resources based on sorting said calculated differences as said at least a subset of

said plurality of computation resources to execute said target parallel application process.

14. (Original claim) The computer network of claim 13, wherein said method interfaces to

an operating system on said network such that said determination of a listing of computation

resources is itself a parallel processing application.

15. (Original claim) The computer network of claim 13, wherein said method interfaces to

an operating system on said network such that said determination of a listing of computation

resources is executed in real time concurrently with said parallel application.

16. (Original claim) The computer network of claim 13, said method further comprising:

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providing said selected listing of computation resources to an operating system

controlling an execution of said parallel application.

17. (Original claim) The computer network of claim 13, wherein said selecting a listing of

computation resources from said listing of all possible computation resources further

comprises a quantification of a history of each said possible computation resource and a

consideration of said history in said selecting of a listing.

18. (Original claim) The computer network of claim 13, wherein said calculating a

difference between current capacity and a current utilization further comprises:

normalizing said difference.

19. (Previously presented) A computer network having a plurality of computation resources

and an operating system for executing a target parallel application process using at least a

subset of said plurality of computation resources, wherein said network includes a method to

determine a listing of said computation resources to perform said target parallel application

process, said method comprising:

means for determining a listing of all possible said computation resources on said

network for performing said parallel application;

means for determining, for each of said possible computation resources, a current

capacity and a current utilization;

means for calculating, for each of said possible computation resources, a difference

between said current capacity and said current utilization; and

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means for selecting from said listing of all possible computation resources a listing of

computation resources based on sorting said calculated differences to be said at least a subset

of said computation resources for executing said target parallel application process.

20. (Original claim) The computer network of claim 19, wherein said method interfaces to

an operating system on said network such that said determination of a listing of computation

resources is executed in real time concurrently with said parallel application.

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